

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/15/97

Date Received: 08/07/97

Project: Metro Self Monitor PO#M58062

Date Samples Extracted: 08/13/97

Date Extracts Analyzed: 08/14/97

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, ZINC
USING METHOD 6010**

**Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)**

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M58062	0.60	1.4	0.78	0.33
Method Blank	<0.05	<0.05	<0.05	<0.05

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**QUALITY ASSURANCE RESULTS FOR
THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 708033-01(Duplicate)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>Relative Percent Difference</u>	<u>Acceptance Criteria</u>
Chromium	mg/L (ppm)	0.60	0.58	3	0-20
Copper	mg/L (ppm)	1.4	1.4	0	0-20
Nickel	mg/L (ppm)	0.78	0.75	4	0-20
Zinc	mg/L (ppm)	0.33	0.35	6	0-20

Laboratory Code: 708033-01(Matrix Spike)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
				<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	0.60	93	95	80-120	2
Copper	mg/L (ppm)	5	1.4	89	90	80-120	1
Nickel	mg/L (ppm)	10	0.78	92	96	80-120	4
Zinc	mg/L (ppm)	5	0.33	97	99	80-120	2

Laboratory Code: Spike Blank


<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
			<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	100	101	80-120	1
Copper	mg/L (ppm)	5	96	98	80-120	2
Nickel	mg/L (ppm)	10	101	102	80-120	1
Zinc	mg/L (ppm)	5	101	103	80-120	2

1. J. J. MANN & BRUYA, INC.
1012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

~~ME~~ KJ AI
 8-7-97
 2:25

Form Report To: Alaskan Copper Works Contact Gerard Thompson
Company: _____
Address: 628 Henderson St
City, State, Zip: Seattle WA 98134
Phone: (206) 782-8379 FAX # (206) 382-4709 Date 8-7-97

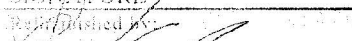

PROJECT NAME PURCHASE ORDER

7238	METRO Self Monitors	M5806Z
SAMPLE/S (signature)		PROJECT LOCATION
		3200 6th Ave S.

REMARKS _____ SAMPLE DISPOSAL INFORMATION _____

☐ Dispose after 30 days
☒ Return Samples
☐ Call for Instructions

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date
	Gerald A. Thompson	ACU	8-7-97 2:15pm
	MANUEL MARTI	FBI	8-7-97 2:18pm
Received by:			
Received by:			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

August 15, 1997

DUPLICATE COPY

INVOICE #97ACU0815-2

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

**RE: Project Metro Self Monitor PO#M58062: Results of testing requested
by Gerry Thompson for material submitted on August 7, 1997.**

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00

FEDERAL TAX ID #(b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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Charlene Jensen, M.S.
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3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

August 15, 1997

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134


Dear Mr. Thompson:

Included are the results from the testing of material submitted on August 7, 1997 from your Metro Self Monitor PO#M58062 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.


Kurt Johnson
Chemist

keh
Enclosures

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